Serial No. 10/715,057 Customer ID: 38396

IN THE ABSTRACT

Please replace the present abstract with the following:

ABSTRACT OF THE DISCLOSURE

Systems and methods are described for carbon <u>containing</u> tips with <u>cylindrically symmetrical</u> <u>carbon containing</u> expanded bases. A method includes producing an expanded based carbon containing tip including: fabricating a carbon containing expanded base on a substrate; and then fabricating a carbon containing fiber on the expanded base. An apparatus includes a carbon containing expanded base coupled to a substrate; and a carbon containing <u>fiber extension</u> coupled to said carbon containing expanded base. The carbon containing expanded base is <u>substantially cylindrically symmetrical and said carbon containing extension</u> is <u>substantially</u> cylindrically symmetrical